

08/2021



⚠ Above stated body materials refer to the valve port connections that get in contact with the media only!

details needed for main valve

- orifice
- port
- function NC/NO
- operating pressure
- inlet pressure at A, B or C
- flow rate
- media
- media temperature
- ambient temperature
- type of actuation

details needed for pneumatic actuation

- nominal voltage
- type of protection
- actuation pressure range min/max
- pilot valve type

details needed for hydraulic actuation

- actuation pressure range min/max
- hydraulic control valve function

⚠ The valves' technical design is based on media and application requirements. This can lead to deviations from the general specifications shown on the data sheet with regards to the design, sealing materials and characteristics.

⚠ If order or application specifications are incomplete or imprecise there exists a risk of an incorrect technical design of the valve for the required application. As a consequence, the physical and / or chemical properties of the materials or seals used, may not be suitable for the intended application.

■ specifications not highlighted are standard
■ specifications highlighted in grey are optional

3/2 way valve

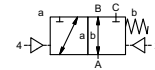
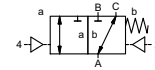
- pressure range
- orifice
- connection
- function

design

body materials

externally controlled

- PN 0-200 bar
- DN 50 mm
- thread/flange
- valve normally closed (A ► B)
symbol **NC**
- valve normally open (A ► B)
symbol **NO**



valve seat

seal materials

- pressure balanced, with spring return, intersecting switch-over
- ①
- ② steel galvanized
- ③
- ④ steel, nickel plated
- ⑤ without non-ferr. Metals
- ⑥ stainless steel

synthetic resin on metal

- NBR
- PTFE, FPM, CR, EPDM

ports

- function
- pressure range
- Kv value
- vacuum
- pressure-vacuum

general specifications

- VMK-H threads G 2
- VFK-H flanges PN 160 / 250
- NC
- bar 0-200
- A ⇒ B max. 200 / B ⇒ A max. 16 / A ⇒ C max. 200 / C ⇒ A max. 200
- m³/h 43,0
- leak rate < 10⁻⁴ mbar•L•s⁻¹
- P₁ ⇔ P₂

options

- special threads
- special flanges
- NO

back pressure media

- P₂ > P₁ see pressure range
- gaseous - liquid - highly viscous - gelatinous - pasty - contaminated

abrasive media damping

- available

flow direction switching cycles switching time

- opening by throttles on pilot valve
- closing see pressure range
- 1/min 100
- ms opening 100-3000
- closing 100-3000

media temperature ambient temperature

- °C direct mounted pilot valve 60
- °C direct mounted pilot valve 50

- remote mounted pilot valve outside temperatur range of media max. 160 °C

flush ports

- available

leak ports

- available

limit switches

- inductive

manual override

- via pilot valve

approvals

- LR/GL/WAZ

mounting

- mounting brackets

weight

- kg VMK-H 19,5 VFK-H 31,4

additional equipment

- upon request

electrical specifications

- U_n DC 24 V
- U_n AC 230 V 50 Hz
- DC 4,8 W
- AC pick up 11,0 VA holding 8,5 VA
- IP65 (P54) acc. DIN 40050
- ED 100%
- plug acc. DIN EN 175301-803 form B, 4 positions x90° / wire diameter 6-8 mm
- M12x1 connector acc. DESINA
- illuminated plug with varistor
- media 60°C
- ambient 50°C
- E Ex e II T5 nominal voltage U_n DC 24 V 3,25 W
- power consumption AC 230 V 50 Hz 2,90 W

options

- special voltage upon request
- special voltage upon request
- 2,5 W [actuation pressure range 4-7 bar]

connector acc. VDMA

pneumatic specifications

- bar 4-10
- cm³/stroke 65
- main valve speed variable by throttleson pilot valve
- preferably 5/2 way pilot valve
- co-ax / Namur ISO 1
- 2/4 G 1/8 G 1/4

options

hydraulic specifications

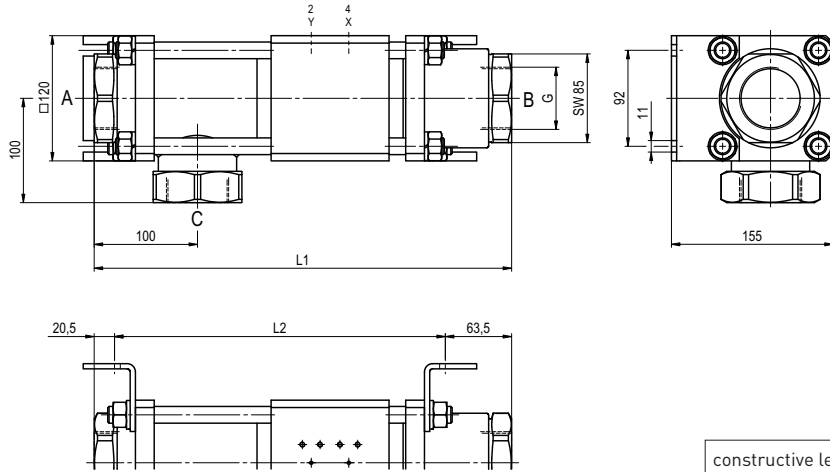
- bar 15-30 / 30-60
- preferably 4/2 way control valve
- X/Y G 1/4 NPT 1/4

options

coax® data sheet - coaxial valve

type VMK-H 50 DR
VFK-H 50 DR

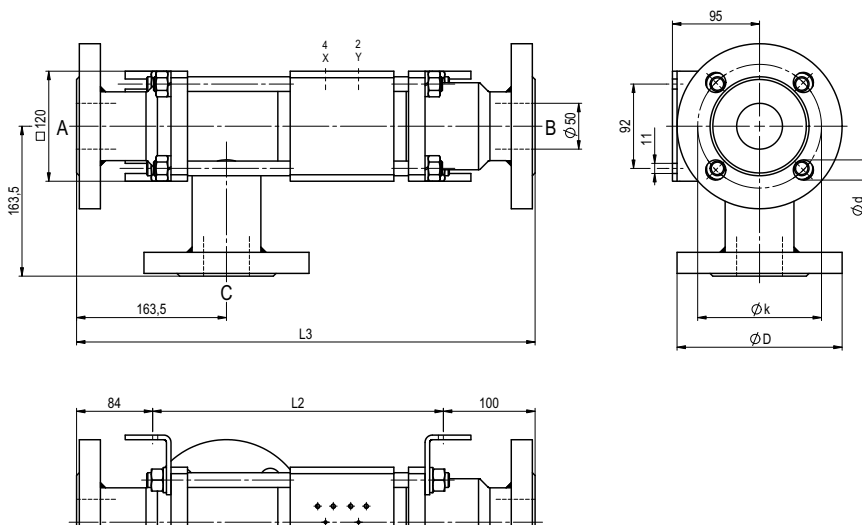
function: **NC**
closed when not energized (A ► B)



constructive length	L1	L2	L3
standard	400	316	500
with inductive limit switches	400	316	500
with force-feed lubrication nipple	400	316	500
with mechanical limit switches	-	-	-

flanges PN	DIN	ØD	Øk	Ød
160	EN 1092-1	195	145	26
250	EN 1092-1	200	150	26

function: **NO**
open when not energized (A ► B)



pneumatic specifications

